

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the present application.

Listing of Claims:

1. (Currently Amended) An interactive television program guide system in which program guide data is provided and wherein at least some of the program guide data is current program guide data, the system comprising:

a continuous data stream processor configured to select the current program guide data for inclusion in a continuous data stream;

a¹ distribution equipment configured to distribute the current program guide data selected by the continuous data stream processor in the continuous data stream to user television equipment;

a program guide server; and

an interactive television program guide implemented on the user television equipment configured to obtain the current program guide data directly from the continuous data stream for inclusion in program guide displays on the user television equipment and to obtain at least some of the program guide data from the program guide server in response to requests generated by the interactive television program guide.

2. (Original) The system defined in claim 1
wherein:

the current program guide data comprises one or
more unique identifiers; and

the interactive television program guide is
configured to perform a real-time action when a particular
unique identifier is in the continuous data stream.

3. (Original) The system defined in claim 2
wherein:

the real-time action comprises displaying a
program reminder for a program; and

the interactive television program guide is
configured to display the program reminder for the program
when a particular unique identifier is in the continuous data
stream.

4. (Original) The system defined in claim 2
wherein:

the real-time action comprises displaying a
program reminder; and

the interactive television program guide is
configured to prefetch current program guide data from the
continuous data stream when the reminder is displayed by the
program guide.

5. (Original) The system defined in claim 2
wherein:

the real-time action comprises authorizing the
viewing of a pay-per-view program; and

the interactive television program guide is
configured to authorize the viewing of a pay-per-view program
when a particular unique identifier is in the continuous data
stream.

6. (Original) The system defined in claim 2
wherein:

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the real-time action comprises authorizing a
viewing of a pay-per-view-program; and

the interactive television program guide is
configured to prefetch current program guide data from the
continuous data stream when the viewing of the pay-per-view
program is authorized by the program guide.

7. (Original) The system defined in claim 2
wherein:

the real-time action comprises recording a
program; and

the interactive television program guide is
configured to record a program when a particular unique
identifier is in the continuous data stream.

8. (Original) The system defined in claim 2
wherein:

the real-time action comprises locking a
program and prompting a user for a control code; and

the interactive television program guide is
configured to lock a program and prompt the user for a control
code when a particular identifier is in the continuous data
stream.

9. (Original) The system defined in claim 2
wherein:

one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises displaying a
program reminder for a program of a program grouping; and

the interactive television program guide is
configured to display the program reminder for the program of
a program grouping when a particular unique identifier of the
one or more unique identifiers is in the continuous data
stream.

10. (Original) The system defined in claim 2
wherein:

one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises displaying a program reminder for a program of a program grouping; and

the interactive television program guide is configured to prefetch current program guide data from the continuous data stream when the reminder is displayed by the program guide.

11. (Original) The system defined in claim 2 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises authorizing the viewing of a pay-per-view program of a program grouping; and

the interactive television program guide is configured to authorize the viewing of a pay-per-view program of a program grouping when a particular unique identifier is in the continuous data stream.

12. (Original) The system defined in claim 2 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises authorizing a viewing of a pay-per-view-program of a program grouping; and

the interactive television program guide is configured to prefetch current program guide data from the continuous data stream when the viewing of the pay-per-view program of a program grouping is authorized by the program guide.

13. (Original) The system defined in claim 2 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises recording a program of a program grouping; and

the interactive television program guide is configured to record a program of a program grouping when a particular unique identifier is in the continuous data stream.

14. (Original) The system defined in claim 2 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises locking a program of a program grouping and prompting a user for a control code; and

the interactive television program guide is configured to lock a program of a program grouping and prompt

the user for a control code when a particular identifier is in the continuous data stream.

15. (Original) The system defined in claim 1 wherein the continuous data stream processor obtains current program guide data from the program guide server.

16. (Original) The system defined in claim 1 wherein:

the continuous data stream processor prioritizes the current program guide data; and

al cont. the distribution equipment cycles the current program guide data in the continuous data stream according to how the current program guide data was prioritized by the continuous data stream processor.

17. (Original) The system defined in claim 1 wherein the program guide processes the current program guide data in real-time and with no data caching.

18. (Original) The system defined in claim 1 wherein the user television equipment comprises hardware filtering circuitry configured to filter current program guide data from the continuous data stream based on a tag.

19. (Original) The system defined in claim 1 wherein the program guide prefetches current program guide data from the continuous data stream.

20. (Original) The system defined in claim 1 wherein the program guide prefetches program guide data from the program guide server.

21. (Original) The system defined in claim 1 wherein:

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cont. the interactive television program guide is configured to invoke a remote procedure call on the program guide server; and

the program guide server is configured to provide the program guide data to the interactive television program guide in response to the remote procedure call being invoked by the interactive television program guide.

22. (Original) The system defined in claim 1 wherein:

the interactive television program guide is configured to obtain program guide data from the program guide server using an object request broker; and

the program guide server is configured to provide program guide data to the interactive television program guide using the object request broker.

23. (Original) The system defined in claim 1 wherein:

the interactive television program guide is configured to obtain configuration information from the program guide server using one or more requests; and

the program guide server is configured to store configuration information and to provide the configuration information to the interactive television program guide in response to the one or more requests.

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24. (Original) The system defined in claim 1 wherein:

the interactive television program guide is configured to obtain user settings from the program guide server using one or more requests; and

the program guide server is configured to store user settings and to provide the user settings to the program guide in response to the one or more requests.

25. (Original) The system defined in claim 1 wherein:

the current program guide data has one or more types; and

the program guide is configured to recognize the type of current program guide data carried in the continuous data stream and to obtain current program guide data from the continuous data stream when the current program guide data in the continuous data stream is a particular type.

26. (Original) The system defined in claim 1 wherein:

the current program guide data has one or more types; and

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the program guide is configured to recognize the type of current program guide data carried in the continuous data stream and to obtain program guide data from the program guide server when the current program guide data in the continuous data stream is not a particular type.

27. (Original) The system defined in claim 1 wherein the program guide is configured to obtain program guide data for a program of a particular category from the program guide server.

28. (Original) The system defined in claim 1 wherein the program guide is configured to obtain current

program guide data from the continuous data stream for a program of a particular category.

29. (Original) The system defined in claim 1 wherein the program guide is configured to obtain current program guide data from the continuous data stream when a user indicates a desire to flip channels.

30. (Original) The system defined in claim 1 wherein the program guide is configured to (1) obtain current program guide data from the continuous data stream when a user indicates a desire to browse program listings data in a current time slot, and to (2) obtain program guide data from the program guide server when the user indicates a desire to browse program listings data in time slots other than the current time slot.

31. (Original) The system defined in claim 1 wherein:

the program guide server is configured to provide program guide data to the continuous data stream processor; and

the continuous data stream processor is configured to receive program guide data from the program guide server and to select current program guide data for

inclusion in the continuous data stream from the program guide data provided by the program guide server.

32. (Original) The system defined in claim 1 wherein:

the program guide server is configured to continuously provide program guide data to the continuous data stream processor; and

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the continuous data stream processor is configured to continuously receive program guide data from the program guide server and to select current program guide data for inclusion in the continuous data stream from the program guide data provided by the program guide server.

33. (Original) The system defined in claim 1 wherein:

the program guide server is configured to periodically provide program guide data to the continuous data stream processor; and

the continuous data stream processor is configured to periodically receive program guide data from the program guide server and to select current program guide data for inclusion in the continuous data stream from the program guide data provided by the program guide server.

34. (Original) The system defined in claim 1
wherein:

the program guide server is configured to poll
the continuous data stream processor and provide program guide
data to the continuous data stream processor; and

the continuous data stream processor is
configured to receive program guide data from the program
guide server and to select current program guide data for
inclusion in the continuous data stream from the program guide
data provided by the program guide server.

35. (Original) The system defined in claim 1
wherein:

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the program guide server is configured to
provide program guide data to the continuous data stream
processor in response to requests generated by the continuous
data stream processor; and

the continuous data stream processor is
configured to generate one or more requests for program guide
data, provide the one or more requests to the program guide
server, receive program guide data from the program guide
server, and to select current program guide data for inclusion
in the continuous data stream from the program guide data
provided by the program guide server.

36. (Original) The system defined in claim 1
wherein:

the system further comprises a main facility
configured to provide a continuous data stream of current
program guide data; and

the continuous data stream distributed by the
distribution equipment is the continuous data stream provided
by the main facility.

37. (Original) The system defined in claim 1
wherein the continuous data stream processor is configured to
select current program guide data from programmer provided in-
band information.

38. (Original) The system defined in claim 1
wherein the continuous data stream processor is configured to
localize program guide data provided by a main facility and to
select the current program guide data for inclusion in a
continuous data stream from the program guide data that is
localized by the continuous data stream processor.

39. (Original) The system defined in claim 1
wherein:

the program guide server is configured to
localize program guide data provided by a main facility; and

the distribution equipment is configured to distribute the program guide data that is localized by the program guide server.

40. (Original) The system defined in claim 1 wherein:

the continuous data stream processor is configured to select the current program guide data for inclusion in a plurality of continuous data streams wherein each continuous data stream of the plurality of continuous data streams carries current program guide data for a particular program guide display screen;

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Cont. the distribution equipment is configured to distribute the plurality of continuous data streams to the user television equipment; and

the interactive television program guide is configured to obtain current program guide data for a particular program guide display screen from the continuous data stream that carries current program guide data for that particular program guide display screen.

41. (Currently Amended) An interactive television program guide system in which program guide data is provided and wherein at least some of the program guide data is one or more unique identifiers, the system comprising:

a continuous data stream processor configured to select one or more unique identifiers of the one or more unique identifiers for inclusion in a continuous data stream;

distribution equipment configured to distribute the one or more unique identifiers selected by the continuous data stream processor to the user television equipment in the continuous data stream; and

an interactive television program guide implemented on the user television equipment configured to obtain the one or more unique identifiers selected by the continuous data stream processor and to perform a real-time action associated with a television program identified by a particular unique identifier when ~~[[a]]~~ the particular unique identifier is in the continuous data stream.

42. (Original) The system defined in claim 41 wherein:

the real-time action comprises displaying a program reminder for a program; and

the interactive television program guide is configured to display the program reminder for the program when a particular unique identifier of the one or more unique identifiers is in the continuous data stream.

43. (Original) The system defined in claim 41
wherein:

the real-time action comprises displaying a
program reminder; and

the interactive television program guide is
configured to prefetch current program guide data from the
continuous data stream when the reminder is displayed by the
program guide.

44. (Original) The system defined in claim 41
wherein:

the real-time action comprises authorizing the
viewing of a pay-per-view program; and

the interactive television program guide is
configured to authorize the viewing of a pay-per-view program
when a particular unique identifier is in the continuous data
stream.

45. (Original) The system defined in claim 41
wherein:

the real-time action comprises authorizing a
viewing of a pay-per-view-program; and

the interactive television program guide is
configured to prefetch current program guide data from the

continuous data stream when the viewing of the pay-per-view program is authorized by the program guide.

46. (Original) The system defined in claim 41 wherein:

the real-time action comprises recording a program; and

the interactive television program guide is configured to record a program when a particular unique identifier is in the continuous data stream.

47. (Original) The system defined in claim 41 wherein:

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Cont.* the real-time action comprises locking a program and prompting a user for a control code; and

the interactive television program guide is configured to lock a program and prompt the user for a control code when a particular identifier is in the continuous data stream.

48. (Original) The system defined in claim 41 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises displaying a program reminder for a program of a program grouping; and

the interactive television program guide is configured to display the program reminder for the program of a program grouping when a particular unique identifier of the one or more unique identifiers is in the continuous data stream.

49. (Original) The system defined in claim 41 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises displaying a program reminder for a program of a program grouping; and

the interactive television program guide is configured to prefetch current program guide data from the continuous data stream when the reminder is displayed by the program guide.

50. (Original) The system defined in claim 41 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises authorizing the viewing of a pay-per-view program of a program grouping; and

the interactive television program guide is configured to authorize the viewing of a pay-per-view program of a program grouping when a particular unique identifier is in the continuous data stream.

51. (Original) The system defined in claim 41 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises authorizing a viewing of a pay-per-view-program of a program grouping; and

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the interactive television program guide is configured to prefetch current program guide data from the continuous data stream when the viewing of the pay-per-view program of a program grouping is authorized by the program guide.

52. (Original) The system defined in claim 41 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises recording a program of a program grouping; and

the interactive television program guide is configured to record a program of a program grouping when a particular unique identifier is in the continuous data stream.

53. (Original) The system defined in claim 41 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises locking a program of a program grouping and prompting a user for a control code; and

the interactive television program guide is configured to lock a program of a program grouping and prompt the user for a control code when a particular identifier is in the continuous data stream.

54. (Currently Amended) An interactive television program guide system in which program guide data is provided and wherein at least some of the program guide data is current program guide data and one or more unique identifiers, the system comprising:

a continuous data stream processor configured to select the current program guide data and one or more of the one or more unique identifiers for inclusion in a continuous data stream;

distribution equipment configured to distribute the current program guide data and one or more unique identifiers selected by the continuous data stream processor in the continuous data stream to the user television equipment;

a program guide server; and

an interactive television program guide implemented on user television equipment configured:

to obtain one or more of the one or more unique identifiers from the continuous data stream;

to obtain the current program guide data directly from the continuous data stream for inclusion in program guide displays on the user television equipment and to store at least some of the current program guide data in a database stored in the user television equipment; and

to obtain at least some of the program guide data from the program guide server in response to requests generated by the interactive television program guide.

55. (Original) The system defined in claim 54 wherein the interactive television program guide is configured to store at least some of the program guide data obtained from the program guide server in the database.

56. (Currently Amended) An interactive television program guide system in which program guide data is provided and wherein at least some of the program guide data is one or more unique identifiers, the system comprising:

a continuous data stream processor configured to select one or more unique identifiers of the one or more unique identifiers for inclusion in a continuous data stream;

distribution equipment configured to distribute the one or more unique identifiers selected by the continuous data stream processor to the user television equipment in the continuous data stream;

a program guide server; and

an interactive television program guide implemented on user television equipment configured to obtain the one or more unique identifiers from the continuous data stream and perform a real-time action associated with a television program identified by a particular unique identifier when the particular unique identifier is in the continuous data stream and to obtain at least some of the program guide data from the program guide server in response to requests generated by the interactive television program guide.

57. (Currently Amended) An interactive television program guide system in which program guide data is provided

to an interactive television program guide implemented on user television equipment and wherein at least some of the program guide data is current program guide data, the system comprising:

means for selecting current program guide data for inclusion in a continuous data stream;

means for distributing the current program guide data selected by the means for selecting to the user television equipment in the continuous data stream;

means for providing program guide data using a client-server based approach; and

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means for obtaining the current program guide data directly from the continuous data stream for inclusion in program guide displays on the user television equipment and to obtain program guide data from the means for providing program guide data using the interactive television program guide implemented on the user television equipment in response to requests generated by the interactive television program guide.

58. (Original) The system defined in claim 57 wherein:

the current program guide data comprises one or more unique identifiers; and

the means for obtaining current program guide data and program guide data using the interactive television program guide comprises means for performing a real-time action when a particular unique identifier is in the continuous data stream.

59. (Original) The system defined in claim 58 wherein:

the real-time action comprises displaying a program reminder for a program; and

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Cont. the means for performing a real-time action comprises means for displaying the program reminder for the program when a particular unique identifier of the one or more unique identifiers is in the continuous data stream.

60. (Original) The system defined in claim 58 wherein:

the real-time action comprises displaying a program reminder; and

the means for performing a real-time action comprises means for prefetching the current program guide data from the continuous data stream when the reminder is displayed by the means for performing a real-time action.

61. (Original) The system defined in claim 58
wherein:
the real-time action comprises authorizing the
viewing of a pay-per-view program; and
the means for performing a real-time action
comprises means for authorizing the viewing of a pay-per-view
program when a particular unique identifier is in the
continuous data stream.

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62. (Original) The system defined in claim 58
wherein:
the real-time action comprises authorizing a
viewing of a pay-per-view-program; and
the means for performing a real-time action
comprises means for prefetching current program guide data
from the continuous data stream when the viewing of the pay-
per-view program is authorized by the means for performing a
real-time action.

63. (Original) The system defined in claim 58
wherein:
the real-time action comprises recording a
program; and

the means for performing a real-time action comprises means for recording a program when a particular unique identifier is in the continuous data stream.

64. (Original) The system defined in claim 58 wherein:

the real-time action comprises locking a program and prompting a user for a control code; and

the means for performing a real-time action comprises means for locking a program and prompting the user for a control code when a particular identifier is in the continuous data stream.

65. (Original) The system defined in claim 58 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises displaying a program reminder for a program of a program grouping; and

the means for performing a real-time action comprises means for displaying the program reminder for the program of a program grouping when a particular unique identifier is in the continuous data stream.

66. (Original) The system defined in claim 58
wherein:

one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises displaying a
program reminder for a program of a program grouping; and

the means for performing a real-time action
comprises means for prefetching current program guide data
from the continuous data stream when the reminder is displayed
by the means for performing a real-time action.

67. (Original) The system defined in claim 58
wherein:

one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises authorizing the
viewing of a pay-per-view program of a program grouping; and

the means for performing a real-time action
comprises means for authorizing the viewing of a pay-per-view
program of a program grouping when a particular unique
identifier is in the continuous data stream.

68. (Original) The system defined in claim 58
wherein:

one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises authorizing a
viewing of a pay-per-view-program of a program grouping; and

the means for performing a real-time action
comprises means for prefetching current program guide data
from the continuous data stream when the viewing of the pay-
per-view program of a program grouping is authorized by the
means for performing a real-time action.

69. (Original) The system defined in claim 58
wherein:

one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises recording a
program of a program grouping; and

the means for performing a real-time action
comprises means for recording a program of a program grouping
when a particular unique identifier is in the continuous data
stream.

70. (Original) The system defined in claim 58
wherein:

one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises locking a program of a program grouping and prompting a user for a control code; and

the means for performing a real-time action comprises means for locking a program of a program grouping and prompting the user for a control code when a particular identifier is in the continuous data stream.

71. (Original) The system defined in claim 57 wherein the means for selecting obtains current program guide data from the means for providing program guide data using a client-server based approach.

72. (Original) The system defined in claim 57 wherein:

the means for selecting comprises means for prioritizing the current program guide data; and

the means for distributing comprises means for cycling the current program guide data in the continuous data stream according to how the current program guide data was prioritized by the means for selecting.

73. (Original) The system defined in claim 57 wherein:

the means for obtaining current program guide data and program guide data using the interactive television program guide comprises means for processing the current program guide data in real-time and with no data caching.

74. (Original) The system defined in claim 57 wherein the user television equipment comprises means for filtering current program guide data from the continuous data stream based on a tag.

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Cont.*
75. (Original) The system defined in claim 57 wherein the means for obtaining current program guide data and program guide data using the interactive television program guide comprises means for prefetching current program guide data from the continuous data stream.

76. (Original) The system defined in claim 57 wherein the means for obtaining current program guide data and program guide data using the interactive television program guide comprises means for prefetching program guide data from the means for providing program guide data using a client-server based approach.

77. (Original) The system defined in claim 57 wherein:

the means for obtaining current program guide data and program guide data using the interactive television program guide comprises means for invoking a remote procedure call on the means for providing program guide data using a client-server based approach; and

the means providing program guide data using a client-server based approach comprises means for providing the program guide data to the means for obtaining current program guide data and program guide data using the interactive television program guide in response to the remote procedure call being invoked.

78. (Original) The system defined in claim 57 wherein:

the means for obtaining current program guide data and program guide data using the interactive television program guide comprises means for using an object request broker to obtain program guide data from the means for providing program guide data using a client-server bases approach; and

the means for providing program guide data using a client-server based approach comprises means for providing program guide data to the means for obtaining current program guide data and program guide data using the

interactive television program guide using the object request broker.

79. (Original) The system defined in claim 57 wherein:

the means for obtaining current program guide data and program guide data using the interactive television program guide comprises means for obtaining configuration information from the means for providing program guide data using a client-server based approach using one or more requests; and

the means for providing program guide data using a client-server based approach comprises means for storing configuration information and providing the configuration information to the means for obtaining current program guide data and program guide data using the interactive television program guide in response to the one or more requests.

80. (Original) The system defined in claim 57 wherein:

the means for obtaining current program guide data and program guide data using the interactive television program guide comprises means for obtaining user settings from

the means for providing program guide data using a client-server based approach using one or more requests; and

the means for providing program guide data using a client-server based approach comprises means for storing user settings and for providing the user settings to the means for obtaining current program guide data and program guide data using the interactive television program guide in response to the one or more requests.

81. (Original) The system defined in claim 57

wherein:

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the current program guide data has one or more types; and

the means for obtaining current program guide data and program guide data using the interactive television program guide comprises means for recognizing the type of current program guide data carried in the continuous data stream and for obtaining current program guide data from the continuous data stream when the current program guide data in the continuous data stream is a particular type.

82. (Original) The system defined in claim 57

wherein:

the current program guide data has one or more types; and

the means for obtaining current program guide data and program guide data using the interactive television program guide comprises means for recognizing the type of current program guide data carried in the continuous data stream and for obtaining program guide data from the means for providing program guide data using a client-server based approach when the current program guide data in the continuous data stream is not a particular type.

a' out 83. (Original) The system defined in claim 57 wherein the means for obtaining current program guide data and program guide data using the interactive television program guide comprises means for obtaining program guide data for a program of a particular category from the means for providing program guide data using a client-server based approach.

84. (Original) The system defined in claim 57 wherein the means for obtaining current program guide data and program guide data using the interactive television program guide comprises means for obtaining current program guide data from the continuous data stream for a program of a particular category.

85. (Original) The system defined in claim 57 wherein the means for obtaining current program guide data and

program guide data using the interactive television program guide comprises means for obtaining current program guide data from the continuous data stream when a user indicates a desire to flip channels.

86. (Original) The system defined in claim 57 wherein the means for obtaining current program guide data and program guide data using the interactive television program guide comprises:

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cont. means for obtaining current program guide data from the continuous data stream when a user indicates a desire to browse program listings data in a current time slot; and

means for obtaining program guide data from the means for providing program guide data using a client-server based approach when the user indicates a desire to browse program listings data in time slots other than the current time slot.

87. (Original) The system defined in claim 57 wherein:

the means for providing program guide data using a client-server based approach comprises means for providing program guide data to the means for selecting current program guide data; and

the means for selecting current program guide data comprises means for receiving program guide data from the means for providing program guide data using a client-server based approach and for selecting current program guide data for inclusion in the continuous data stream from the program guide data provided by the means for providing program guide data using a client-server based approach.

88. (Original) The system defined in claim 57 wherein:

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cont. the means for providing program guide data using a client-server based approach comprises means for continuously providing program guide data to the means for selecting current program guide data; and

the means for selecting current program guide data comprises means for continuously receiving program guide data from the means for providing program guide data using a client-server based approach and for selecting current program guide data for inclusion in the continuous data stream from the program guide data provided by the means for providing program guide data using a client-server based approach.

89. (Original) The system defined in claim 57 wherein:

the means for providing program guide data using a client-server based approach comprises means for periodically providing program guide data to the means for selecting current program guide data; and

the means for selecting current program guide data comprises means for periodically receiving program guide data from the program guide server and for selecting current program guide data for inclusion in the continuous data stream from the program guide data provided by the means for providing program guide data using a client-server based approach.

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90. (Original) The system defined in claim 57 wherein:

the means for providing program guide data using a client-server based approach comprises means for polling the means for selecting current program guide data and providing program guide data to the means for selecting current program guide data; and

the means for selecting current program guide data comprises means for receiving program guide data from the means for providing program guide data using a client-server based approach and for selecting current program guide data for inclusion in the continuous data stream from the program

guide data provided by the means for providing program guide data using a client-server based approach.

91. (Original) The system defined in claim 57 wherein:

the means for providing program guide data using a client-server based approach comprises means for providing program guide data to the means for selecting current program guide data in response to requests generated by the means for selecting current program guide data; and

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cont. the means for selecting current program guide data comprises means for generating one or more requests for program guide data, providing the one or more requests to the means for providing program guide data using a client-server based approach, receiving program guide data from the means for providing program guide data using a client-server based approach, and selecting current program guide data for inclusion in the continuous data stream from the program guide data provided by the means for providing program guide data using a client-server based approach.

92. (Original) The system defined in claim 57 wherein:

the system further comprises means for providing a continuous data stream of current program guide

data to the means for selecting current program guide data;
and

the continuous data stream distributed by the means for distributing is the continuous data stream provided by the means for providing a continuous data stream of current program guide data to the means for selecting current program guide data.

93. (Original) The system defined in claim 57 wherein the means for selecting current program guide data is configured to select current program guide data from programmer provided in-band information.

94. (Original) The system defined in claim 57 wherein the means for selecting current program guide data comprises means for localizing program guide data provided by a means for providing a continuous data stream of current program guide data and for selecting the current program guide data for inclusion in a continuous data stream from the program guide data that is localized by the means for selecting current program guide data.

95. (Original) The system defined in claim 57 wherein:

the means for selecting current program guide data is configured to select the current program guide data for inclusion in a plurality of continuous data streams wherein each continuous data stream of the plurality of continuous data streams carries current program guide data for a particular program guide display screen;

the means for distributing comprises means for distributing the plurality of continuous data streams to the means for obtaining current program guide data and program guide data using the interactive television program guide; and

the means for obtaining current program guide data and program guide data using the interactive television program guide comprises means for obtaining current program guide data for a particular program guide display screen from the continuous data stream that carries current program guide data for that particular program guide display screen.

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96. (Currently Amended) An interactive television program guide system in which program guide data is provided to an interactive television program guide implemented on user television equipment and wherein at least some of the program guide data is one or more unique identifiers, the system comprising:

means for selecting one or more unique identifiers of the one or more unique identifiers for inclusion in a continuous data stream;

means for distributing the one or more unique identifiers selected by the means for selecting to the user television equipment in the continuous data stream; and

means using the interactive television program guide for obtaining the one or more unique identifiers selected by the means for selecting and for performing a real-time action associated with a television program identified by a particular unique identifier when ~~[[a]]~~ the particular unique identifier is in the continuous data stream.

97. (Original) The system defined in claim 96 wherein:

the real-time action comprises displaying a program reminder for a program; and

the means for performing a real-time action comprises means for displaying the program reminder for the program when a particular unique identifier of the one or more unique identifiers is in the continuous data stream.

98. (Original) The system defined in claim 96 wherein:

the real-time action comprises displaying a program reminder; and

the means for performing a real-time action comprises means for prefetching the current program guide data from the continuous data stream when the reminder is displayed by the means for performing a real-time action.

99. (Original) The system defined in claim 96 wherein:

the real-time action comprises authorizing the viewing of a pay-per-view program; and

the means for performing a real-time action comprises means for authorizing the viewing of a pay-per-view program when a particular unique identifier is in the continuous data stream.

100. (Original) The system defined in claim 96 wherein:

the real-time action comprises authorizing a viewing of a pay-per-view-program; and

the means for performing a real-time action comprises means for prefetching current program guide data from the continuous data stream when the viewing of the pay-per-view program is authorized by the means for performing a real-time action.

101. (Original) The system defined in claim 96 wherein:

the real-time action comprises recording a program; and

the means for performing a real-time action comprises means for recording a program when a particular unique identifier is in the continuous data stream.

102. (Original) The system defined in claim 96 wherein:

the real-time action comprises locking a program and prompting a user for a control code; and

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the means for performing a real-time action comprises means for locking a program and prompting the user for a control code when a particular identifier is in the continuous data stream.

103. (Original) The system defined in claim 96 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises displaying a program reminder for a program of a program grouping; and

the means for performing a real-time action comprises means for displaying the program reminder for the

program of a program grouping when a particular unique identifier is in the continuous data stream.

104. (Original) The system defined in claim 96 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises displaying a program reminder for a program of a program grouping; and

the means for performing a real-time action comprises means for prefetching current program guide data from the continuous data stream when the reminder is displayed by the means for performing a real-time action.

105. (Original) The system defined in claim 96 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises authorizing the viewing of a pay-per-view program of a program grouping; and

the means for performing a real-time action comprises means for authorizing the viewing of a pay-per-view program of a program grouping when a particular unique identifier is in the continuous data stream.

106. (Original) The system defined in claim 96
wherein:

one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises authorizing a
viewing of a pay-per-view-program of a program grouping; and

the means for performing a real-time action
comprises means for prefetching current program guide data
from the continuous data stream when the viewing of the pay-
per-view program of a program grouping is authorized by the
means for performing a real-time action.

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107. (Original) The system defined in claim 96
wherein:

one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises recording a
program of a program grouping; and

the means for performing a real-time action
comprises means for recording a program of a program grouping
when a particular unique identifier is in the continuous data
stream.

108. (Original) The system defined in claim 96
wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises locking a program of a program grouping and prompting a user for a control code; and

the means for performing a real-time action comprises means for locking a program of a program grouping and prompting the user for a control code when a particular identifier is in the continuous data stream.

109. (Currently Amended) An interactive television program guide system in which program guide data is provided to an interactive television program guide implemented on user television equipment and wherein at least some of the program guide data is current program guide data and one or more unique identifiers, the system comprising:

means for selecting current program guide data and one or more of the one or more unique identifiers for inclusion in [[the]] a continuous data stream;

means for distributing the current program guide data and one or more unique identifiers selected by the means for selecting in the continuous data stream to the user television equipment;

means for providing program guide data using a client-server based approach; and

means using the interactive television program guide to obtain:

the one or more unique identifiers from the continuous data stream using the interactive television program guide;

the current program guide data directly from [[a]] the continuous data stream for inclusion in program guide displays on the user television equipment and to store at least some of the current program guide data in a database stored in the user television equipment; and

program guide data from the means for providing in response to requests generated by the interactive television program guide.

110. (Original) The system defined in claim 109 wherein the means for obtaining comprises means for storing at least some of the program guide data in the database.

111. (Currently Amended) An interactive television program guide system in which program guide data is provided to an interactive television program guide implemented on user television equipment wherein at least some of the program guide data is one or more unique identifiers, the system comprising:

means for selecting one or more of the one or more unique identifiers for inclusion in a continuous data stream;

means for distributing the one or more unique identifiers selected by the means for selecting in the continuous data stream to the user television equipment;

means for providing program guide data using a client-server based approach; and

means for obtaining identifiers using the interactive television program guide from the continuous data stream and for performing a real-time action associated with a television program identified by a particular unique identifier when the particular unique identifier is in the continuous data stream and ~~to obtain~~ for obtaining program guide data from the means for providing program guide data using a client-server based approach.

112. (Currently Amended) A method in an interactive television program guide system in which program guide data is provided to an interactive television program guide implemented on user television equipment and wherein at least some of the program guide data is current program guide data, the method comprising:

selecting current program guide data for inclusion in a continuous data stream using a continuous data stream processor;

distributing the selected current program guide data to the user television equipment in the continuous data stream;

providing program guide data using a program guide server; and

obtaining the current program guide data directly from the continuous data stream for inclusion in program guide displays on the user television equipment and from the program guide server using the interactive television program guide implemented on the user television equipment in response to requests generated by the interactive television program guide.

113. (Original) The method defined in claim 112 wherein:

the current program guide data comprises one or more unique identifiers; and

the method further comprises performing a real-time action using the interactive television program guide when a particular unique identifier is in the continuous data stream.

114. (Original) The method defined in claim 113
wherein:

the real-time action comprises displaying a
program reminder for a program; and

the method further comprises using the
interactive television program guide to display the program
reminder for the program when a particular unique identifier
of the one or more unique identifiers is in the continuous
data stream.

115. (Original) The method defined in claim 113
wherein:

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the real-time action comprises displaying a
program reminder; and

the method further comprises using the
interactive television program guide to prefetch current
program guide data from the continuous data stream when the
reminder is displayed by the program guide.

116. (Original) The method defined in claim 113
wherein:

the real-time action comprises authorizing the
viewing of a pay-per-view program; and

the method further comprises using the
interactive television program guide to authorize the viewing

of a pay-per-view program when a particular unique identifier is in the continuous data stream.

117. (Original) The method defined in claim 113 wherein:

the real-time action comprises authorizing a viewing of a pay-per-view-program; and

the method further comprises using the interactive television program guide to prefetch current program guide data from the continuous data stream when the viewing of the pay-per-view program is authorized by the program guide.

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cont. 118. (Original) The method defined in claim 113 wherein:

the real-time action comprises recording a program; and

the method further comprises using the interactive television program guide to record a program when a particular unique identifier is in the continuous data stream.

119. (Original) The method defined in claim 113 wherein:

the real-time action comprises locking a program and prompting a user for a control code; and

the method further comprises using the interactive television program guide to lock a program and prompt the user for a control code when a particular identifier is in the continuous data stream.

120. (Original) The method defined in claim 113 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

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cont. the real-time action comprises displaying a program reminder for a program of a program grouping; and

the method further comprises using the interactive television program guide to display the program reminder for the program of a program grouping when a particular unique identifier of the one or more unique identifiers is in the continuous data stream.

121. (Original) The method defined in claim 113 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises displaying a program reminder for a program of a program grouping; and

the method further comprises using the interactive television program guide to prefetch current program guide data from the continuous data stream when the reminder is displayed by the program guide.

122. (Original) The method defined in claim 113 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises authorizing the viewing of a pay-per-view program of a program grouping; and

the method further comprises using the interactive television program guide to authorize the viewing of a pay-per-view program of a program grouping when a particular unique identifier is in the continuous data stream.

123. (Original) The method defined in claim 113 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises authorizing a viewing of a pay-per-view-program of a program grouping; and

the method further comprises using the interactive television program guide to prefetch current program guide data from the continuous data stream when the

viewing of the pay-per-view program of a program grouping is authorized by the program guide.

124. (Original) The method defined in claim 113 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises recording a program of a program grouping; and

the method further comprises using the interactive television program guide to record a program of a program grouping when a particular unique identifier is in the continuous data stream.

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125. (Original) The method defined in claim 113 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises locking a program of a program grouping and prompting a user for a control code; and

the method further comprises using the interactive television program guide to lock a program of a program grouping and prompt the user for a control code when a particular identifier is in the continuous data stream.

126. (Original) The method defined in claim 112 further comprising providing program guide data from the program guide server to the continuous data stream processor.

127. (Original) The method defined in claim 112 further comprising:

prioritizing the current program guide data;

and

cycling the current program guide data in the continuous data stream according to how the current program listings data was prioritized.

128. (Original) The method defined in claim 112 further comprising processing the current program guide data in real-time and with no data caching using the interactive television program guide.

129. (Original) The method defined in claim 112 further comprising filtering current program guide data from the continuous data stream based on a tag.

130. (Original) The method defined in claim 112 further comprising prefetching current program guide data from

the continuous data stream using the interactive television program guide.

131. (Original) The method defined in claim 112 further comprising prefetching program guide data from the program guide server using the interactive television program guide.

132. (Original) The method defined in claim 112 wherein:

obtaining current program guide data and program guide data comprises invoking a remote procedure call on the program guide server using the interactive television program guide; and

providing program guide data using a program guide server comprises providing program guide data in response to the remote procedure call being invoked on the program guide server.

133. (Original) The method defined in claim 112 wherein:

obtaining current program guide data and program guide data comprises using an object request broker to obtain program guide data from the program guide server; and

providing program guide data using a program guide server comprises providing program guide data using the object request broker.

134. (Original) The method defined in claim 112 wherein:

obtaining current program guide data and program guide data using the interactive television program guide comprises obtaining configuration information from the program guide server using one or more requests; and

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cont. providing program guide data using a program guide server comprises storing configuration information and providing the configuration information to the interactive television program guide in response to the one or more requests.

135. (Original) The method defined in claim 112 wherein:

obtaining current program guide data and program guide data using the interactive television program guide comprises obtaining user settings from the program guide server using one or more requests; and

providing program guide data using a program guide server comprises storing user settings and providing the

user settings to the interactive television program guide in response to the one or more requests.

136. (Original) The method defined in claim 112

wherein:

the current program guide data has one or more types; and

obtaining current program guide data and program guide data using the interactive television program guide comprises recognizing the type of current program guide data carried in the continuous data stream and obtaining current program guide data from the continuous data stream when the current program guide data in the continuous data stream is a particular type.

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137. (Original) The method defined in claim 112

wherein:

the current program guide data has one or more types; and

obtaining current program guide data and program guide data using the interactive television program guide comprises recognizing the type of current program guide data carried in the continuous data stream and obtaining program guide data from the program guide server when the

current program guide data in the continuous data stream is not a particular type.

138. (Original) The method defined in claim 112 wherein obtaining current program guide data and program guide data using the interactive television program guide comprises obtaining program guide data for a program of a particular category from the program guide server.

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139. (Original) The method defined in claim 112 wherein obtaining current program guide data and program guide data using the interactive television program guide comprises obtaining current program guide data from the continuous data stream for a program of a particular category.

140. (Original) The method defined in claim 112 wherein obtaining current program guide data and program guide data using the interactive television program guide comprises obtaining current program guide data from the continuous data stream when a user indicates a desire to flip channels.

141. (Original) The method defined in claim 112 wherein obtaining current program guide data and program guide data using the interactive television program guide comprises:

obtaining current program guide data from the continuous data stream when a user indicates a desire to browse program listings data in a current time slot; and

obtaining program guide data from the program guide server when the user indicates a desire to browse program listings data in time slots other than the current time slot.

142. (Original) The method defined in claim 112 wherein:

the method further comprises providing program guide data from the program guide server to the continuous data stream processor; and

selecting current program guide data for inclusion in the continuous data stream comprises selecting current program guide data from the program guide data provided by the program guide server.

143. (Original) The system defined in claim 112 wherein:

the method further comprises continuously providing program guide data from the program guide server to the continuous data stream processor; and

selecting current program guide data for inclusion in the continuous data stream comprises selecting

current program guide data from the program guide data provided by the program guide server.

144. (Original) The method defined in claim 112 wherein:

the method further comprises periodically providing program guide data from the program guide server to the continuous data stream processor; and

selecting current program guide data for inclusion in the continuous data stream comprises selecting current program data from the program guide data provided by the program guide server.

145. (Original) The method defined in claim 112 wherein:

the method further comprises polling the continuous data stream processor and providing program guide data from the program guide server to the continuous data stream processor; and

selecting current program guide data for inclusion in the continuous data stream comprises selecting current program data from the program guide data provided by the program guide server.

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146. (Original) The method defined in claim 112
wherein:

the method further comprises:

providing program guide data from the program
guide server to the continuous data stream processor in
response to requests generated by the continuous data stream
processor;

generating one or more requests for program
guide data with the continuous data stream processor;

providing the one or more requests to the
program guide server;

receiving program guide data from the program
guide server; and

wherein selecting current program guide data
for inclusion in the continuous data stream comprises
selecting current program data from the program guide data
provided by the program guide server.

147. (Original) The method defined in claim 112
wherein:

the method further comprises providing a
continuous data stream of current program guide data from a
main facility; and

distributing the continuous data stream
comprises distributing the continuous data stream provided by
the main facility.

148. (Original) The method defined in claim 112
wherein:

selecting current program guide data comprises
selecting current program guide data from programmer provided
in-band information.

149. (Original) The method defined in claim 112
further comprising localizing program guide data provided by a
main facility using the continuous data stream processor; and

wherein selecting the current program guide
data for inclusion in a continuous data stream comprises
selecting current program guide data from program guide data
that is localized by the continuous data stream processor.

150. (Original) The method defined in claim 112
wherein:

the method further comprises localizing program
guide data provided by a main facility using the program guide
server; and

wherein distributing current program guide data comprises distributing current program guide data that is localized by the program guide server.

151. (Original) The method defined in claim 112 wherein:

selecting program guide data comprises selecting current program guide data for inclusion in a plurality of continuous data streams wherein each continuous data stream of the plurality of continuous data streams carries current program guide data for a particular program guide display screen;

distributing the current program guide data comprises distributing the plurality of continuous data streams to the user television equipment; and

the method further comprises obtaining current program guide data for a particular program guide display screen from the continuous data stream that carries current program guide data for that particular program guide display screen using the interactive television program guide.

152. (Currently Amended) A method in an interactive television program guide system in which program guide data is provided to an interactive television program guide implemented on user television equipment and wherein at least

some of the program guide data is one or more unique identifiers, the system comprising:

selecting one or more unique identifiers of the one or more unique identifiers for inclusion in a continuous data stream using a continuous data stream processor;

distributing the one or more unique identifiers selected by the continuous data stream processor to the user television equipment in the continuous data stream;

obtaining the one or more unique identifiers selected by the continuous data stream processor using the interactive television program guide; and

performing a real-time action associated with a television program identified by a particular unique identifier when [[a]] the particular unique identifier is in the continuous data stream using the interactive television program guide.

153. (Original) The method defined in claim 152 wherein:

the real-time action comprises displaying a program reminder for a program; and

the method further comprises using the interactive television program guide to display the program reminder for the program when a particular unique identifier

of the one or more unique identifiers is in the continuous data stream.

154. (Original) The method defined in claim 152 wherein:

the real-time action comprises displaying a program reminder; and

the method further comprises using the interactive television program guide to prefetch current program guide data from the continuous data stream when the reminder is displayed by the program guide.

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155. (Original) The method defined in claim 152 wherein:

the real-time action comprises authorizing the viewing of a pay-per-view program; and

the method further comprises using the interactive television program guide to authorize the viewing of a pay-per-view program when a particular unique identifier is in the continuous data stream.

156. (Original) The method defined in claim 152 wherein:

the real-time action comprises authorizing a viewing of a pay-per-view-program; and

the method further comprises using the interactive television program guide to prefetch current program guide data from the continuous data stream when the viewing of the pay-per-view program is authorized by the program guide.

157. (Original) The method defined in claim 152 wherein:

the real-time action comprises recording a program; and

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cont.* the method further comprises using the interactive television program guide to record a program when a particular unique identifier is in the continuous data stream.

158. (Original) The method defined in claim 152 wherein:

the real-time action comprises locking a program and prompting a user for a control code; and

the method further comprises using the interactive television program guide to lock a program and prompt the user for a control code when a particular identifier is in the continuous data stream.

159. (Original) The method defined in claim 152
wherein:

one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises displaying a
program reminder for a program of a program grouping; and

the method further comprises using the
interactive television program guide to display the program
reminder for the program of a program grouping when a
particular unique identifier of the one or more unique
identifiers is in the continuous data stream.

160. (Original) The method defined in claim 152
wherein:

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one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises displaying a
program reminder for a program of a program grouping; and

the method further comprises using the
interactive television program guide to prefetch current
program guide data from the continuous data stream when the
reminder is displayed by the program guide.

161. (Original) The method defined in claim 152
wherein:

one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises authorizing the
viewing of a pay-per-view program of a program grouping; and

the method further comprises using the
interactive television program guide to authorize the viewing
of a pay-per-view program of a program grouping when a
particular unique identifier is in the continuous data stream.

162. (Original) The method defined in claim 152
wherein:

one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises authorizing a
viewing of a pay-per-view-program of a program grouping; and

the method further comprises using the
interactive television program guide to prefetch current
program guide data from the continuous data stream when the
viewing of the pay-per-view program of a program grouping is
authorized by the program guide.

163. (Original) The method defined in claim 152
wherein:

one or more of the one or more unique
identifiers is a program grouping identifier;

the real-time action comprises recording a program of a program grouping; and

the method further comprises using the interactive television program guide to record a program of a program grouping when a particular unique identifier is in the continuous data stream.

164. (Original) The method defined in claim 152 wherein:

one or more of the one or more unique identifiers is a program grouping identifier;

the real-time action comprises locking a program of a program grouping and prompting a user for a control code; and

the method further comprises using the interactive television program guide to lock a program of a program grouping and prompt the user for a control code when a particular identifier is in the continuous data stream.

165. (Currently Amended) A method in an interactive television program guide system in which program guide data is provided to an interactive television program guide implemented on user television equipment and wherein at least some of the program guide data is current program guide data and one or more unique identifiers, the method comprising:

selecting current program guide data and one or more of the one or more unique identifiers for inclusion in the continuous data stream;

distributing the selected current program guide data and one or more unique identifiers in the continuous data stream to the user television equipment;

providing program guide data using a program guide server; and

using the interactive television program guide to obtain:

Alt. Cont. the one or more unique identifiers from the continuous data stream using the interactive television program guide;

the current program guide data directly from the continuous data stream for inclusion in program guide displays on the user television equipment and to store at least some of the current program guide data in a database stored in the user television equipment; and

program guide data from the program guide server in response to requests generated by the interactive television program guide.

166. (Original) The method defined in claim 165 further comprising storing at least some of the program guide data in the database.

167. (Currently Amended) A method in an interactive television program guide system in which program guide data is provided to an interactive television program guide implemented on user television equipment and wherein at least some of the program guide data is one or more unique identifiers, the method comprising:

selecting one or more of the one or more unique identifiers for inclusion in a continuous data stream;

distributing the selected one or more unique identifiers in the continuous data stream to the user television equipment;

providing program guide data using a program guide server; [[and]]

obtaining identifiers from the continuous data stream;

performing a real-time action associated with a television program identified by a particular unique identifier when the particular unique identifier is in the continuous data stream; and

obtaining program guide data from the program guide server using the interactive television program guide.
